IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-6 (Canceled)

7. (Currently Amended) ~~The method of claim 4~~ A method of configuring a traffic network, comprising:

obtaining information about a plurality of nodes and a plurality of links in the traffic network;

identifying possible origin-destination pairs;

computing an optimum oblivious ratio of the traffic network; and

configuring the traffic network in accordance with the computed oblivious ratio, wherein said computing the optimum oblivious ratio is performed by solving a linear program, wherein the oblivious ratio is computed using a single LP with $O(mn^2)$ variables and $O(nm^2)$ constraints.

8. (Currently Amended) The method of claim 7, wherein the ~~number of~~ $O(nm^2)$ constraints are determined in ~~accord~~ accordance with:

mm r

$f_{ij}(e)$ is a routing

$\forall$ links l: $\sum_{m}$ cap(m) π (l,m) <r))

$\forall$ links l, $\forall$ pairs i→j:

$f_{ij}(l)/cap(l) - s_l^+(l,j) + s_l^-(l,j) = p_l(l,j)$

$\forall$ links l, $\forall$ nodes l, $\forall$ edges e = j→k:

$\pi(l,$ link-of(e)) + $p_l(i,j) - p_l(i,k) \leq 0$

$\forall$ links l,m: $\pi(l,m) \leq 0$

$\forall$ links l, $\forall$ nodes $i: p_l(i,i) = 0$

$\forall$ links l, $\forall$ nodes $i.j\_ \leq 0$

Claims 9-14 (Canceled)

15. (Currently Amended) ~~The method of claim 12~~ A method of configuring a traffic network, comprising:

obtaining information about a plurality of nodes and a plurality of links in the traffic network;

identifying possible origin-destination pairs;

computing an optimum network routing; and

configuring the traffic network in accordance with the computed optimum network routing, wherein said computing the optimum network routing is performed by solving a linear program, wherein the optimum network routing is computed using a single LP with $O(mn^2)$ variables and $O(nm^2)$ constraints.

16. (Currently Amended) The method of claim 15, wherein the ~~number of~~ $O(nm^2)$ constraints are determined in ~~accord~~ accordance with:

mm r

$f_{ij}(e)$ is a routing

$\forall$ links l: $\sum_{m}$ cap(m) π (l,m) <r))

$\forall$ links l, $\forall$ pairs i→j:

$f_{ij}(l)/cap(l) - s_l^+(l,j) + s_l^-(l,j) = p_l(l,j)$

$\forall$ links l, $\forall$ nodes l, $\forall$ edges e = j→k:

$\pi(l,$ link-of(e)) + $p_l(i,j) - p_l(i,k) \leq 0$

$\forall$ links l,m: $\pi(l,m) \leq 0$

$\forall$ links l, $\forall$ nodes i: $p_l(i,i) = 0$

$\forall$ links l, $\forall$ nodes $i.j\_ \leq 0$

Claims 17-19 (Canceled)

20. (Currently Amended) ~~The traffic network of claim 17~~ A traffic network comprised of:

a plurality of routers that support path-based routing and a plurality of links that connect the plurality of routers, wherein each path-based routing is configured in accordance with an oblivious routing configuration based on the plurality of routers and links, wherein the oblivious routing configuration is derived by identifying possible origin-destination pairs, computing an optimum network routing based on linear constraints placed on origin-destination pair demands, and configuring the path-based routing in accordance with the optimum network routing, wherein the optimum network routing is computed using a single LP with $O(mn^2)$ variables and $O(nm^2)$ constraints.

Claims 21-27 (Canceled)